

Amendments to the Claims

A detailed list of all claims under examination is set out below. Please amend claims 1 and 8 as shown:

1. (currently amended): A composition, comprising:
 - a vinyl addition latex polymer having a first crosslinkable functional group;
 - a polyurethane dispersion having a second crosslinkable functional end ~~group~~; groupcomprising an acetoacetoxyl, diacetone, amine or hydrazide group or combination thereof; and
 - an optional crosslinker,wherein the composition is in the form of a waterborne coating composition, and wherein the first crosslinkable functional group of the vinyl addition latex polymer and the second crosslinkable functional end group of the polyurethane dispersion self-crosslink at low temperature upon coalescence.
2. (original): The composition of claim 1, wherein the waterborne coating composition is essentially formaldehyde free.
3. (original): The composition of claim 1, wherein the first crosslinkable functional group of the vinyl addition polymer is reactive.
4. (original): The composition of claim 1, wherein the first crosslinkable functional group comprises an acetoacetoxyl, diacetone, amine or hydrazide group or combination thereof.
5. (original): The composition of claim 1, wherein the first crosslinkable functional group comprises an acetoacetoxyl group, diacetone group or combination thereof, and wherein the second crosslinkable functional end group comprises an amine group, dihydrazide group or combination thereof.
6. (original): The composition of claim 1, wherein the vinyl addition latex polymer is selected from the group consisting of: acrylates, methacrylates, styrenes, and vinyl monomers.
7. (original): The composition of claim 1, wherein the acid number of the vinyl addition latex polymer is between about 1 and 90.

8. (currently amended): The composition of claim 1, wherein the vinyl addition latex polymer has a glass transition temperature of between about -70 and 130 °C.
9. (original): The composition of claim 1, wherein the vinyl addition latex polymer comprises between about 10 and 90 weight percent of the coating composition.
10. (original): The composition of claim 1, wherein the polyurethane dispersion comprises between about 10 and 90 weight percent of the coating composition.
11. (original): The composition of claim 1, wherein the polyurethane dispersion is formed from the reaction product of a diisocyanate(s) and a polyol(s).
12. (original): The composition of claim 11, wherein the diisocyanate includes aliphatic and aromatic diisocyanates.
13. (original): The composition of claim 11, wherein the polyol includes polyester, polyether, and polycarbonate polyols.
14. (original): A composition comprising
a vinyl addition latex polymer having a first crosslinkable functional group; and
a polyurethane dispersion having a second crosslinkable functional end group,
wherein the composition is in the form of a waterborne coating composition, the first crosslinkable functional group of the vinyl addition latex polymer and the second crosslinkable functional end group of the polyurethane dispersion self-crosslink at low temperature upon coalescence, and the waterborne coating composition further comprises a crosslinker.
15. (original): The composition of claim 14, wherein the crosslinker comprises between about 0.5 and 20 weight percent of the coating composition.
16. (original): The composition of claim 14, wherein the crosslinker is selected from the group consisting of: polyamines, dihydrazides, diacetones, acetoacetoxyl compounds, and combinations thereof.

17. (original): The composition of claim 1, wherein the coating composition further comprises adjuvants selected from the group consisting of: pigments, cosolvents, wetting agents, UV stabilizers, pH control agents, viscosity control agents, flow control agents, leveling agents, biocides, and combinations thereof.
18. (original): The composition of claim 1, wherein the first and second functional groups are separated in separated phases of a dispersion.
19. (original): The composition of claim 1, wherein the coating composition is available in a one-pack composition.
20. (original): A composition, comprising:
 - about 10 to 90 weight percent vinyl addition latex polymer having a first crosslinkable functional group, wherein the vinyl addition latex polymer has an acid number of between about 10 to 60;
 - about 10 to 90 weight percent polyurethane dispersion having a second crosslinkable functional end group; and
 - about 1 to 20 weight percent crosslinker;wherein the composition is in the form of a waterborne coating composition, the first crosslinkable functional group of the vinyl addition latex polymer and the second crosslinkable functional end group of the polyurethane dispersion self-crosslink at low temperature upon coalescence and the coating composition is essentially formaldehyde free.
21. (original): An article, comprising:
 - a substrate; and
 - a coating on the substrate, wherein the coating is a coalesced film made from a coating composition comprising:
 - a vinyl addition latex polymer having a first crosslinkable functional group;
 - a polyurethane dispersion having a second crosslinkable functional end group; and
 - a crosslinker,wherein the coating composition is in the form of a waterborne coating composition, and wherein the coating composition is crosslinkable at low temperature upon coalescence.

22. (original): The article of claim 21, wherein the substrate is selected from the group consisting of: wood, metals, plastics, ceramics and paper products.
23. (original): The article of claim 21, wherein the substrate is wood.
24. (original): A method of coating a substrate, comprising the steps of:
providing a coating composition comprising:
a vinyl addition latex polymer having a first crosslinkable functional group;
a polyurethane dispersion having a second crosslinkable functional end group
comprising an acetoacetoxyl, diacetone, amine or hydrazide group or
combination thereof; and
water;
coalescing the coating composition at a low temperature to form a coating; and
crosslinking the coating composition,
wherein the coating composition is essentially formaldehyde free.
25. (original): The method of claim 24, wherein the coalescing of the coating composition is accomplished at a temperature between about 15 and 90 °C.
26. (original): The method of claim 24, wherein the coalescing of the coating composition is accomplished at a temperature between about 20 and 70 °C.
27. (original): The method of claim 24, wherein the coalescing of the coating composition is accomplished at a temperature between about 20 and 50 °C.